The Journal of Infectious Diseases

Volume 151 • *January 1985* • *Number 1*

CONTENTS

Perspective

The HLA Complex and the Pathogenesis of Infectious Diseases — Marilyn S. Pollack and Robert R. Rich — 1

Original Articles

HLA-Linked Control of Predisposition to Lepromatous Leprosy — Willem van Eden, Nieves M. Gonzales, René R. P. de Vries, Jacinto Convit, and Jon J. van Rood — 9

Influence of Drugs that Block Calcium Channels on the Microbicidal Function of Human Neutrophils — Powel H. Kazanjian and James E. Pennington — 15

Effects of Maternal Protein Deprivation on the Nutritional Status and Neutrophil Function of Suckling Neonatal Rats — Martin U. Nwankwo, Kenneth E. Schuit, and Robert H. Glew — 23

Opsonophagocytosis of *Neisseria gonorrhoeae*: Interaction of Local and Disseminated Isolates with Complement and Neutrophils — Stephen C. Ross and Peter Densen — 33

Defective Triggering of Polymorphonuclear Leukocyte Oxidative Metabolism by *Legionella pneumophila* Toxin — Janis E. Lochner, Robert H. Bigley, and Barbara H. Iglewski — 42

Inhibition of *Nocardia asteroides* by Neutrophils — Gregory A. Filice — 47

Intracellular Growth and Phagocytosis of *Blastomyces dermatitidis* by Monocyte-Derived Macrophages from Previously Infected and Normal Subjects — Robert W. Bradsher, W. Clyde Ulmer, Daniel J. Marmer, James W. Townsend, and Richard F. Jacobs — 57

Toxic-Shock–Syndrome Toxin 1–Induced Proliferation of Lymphocytes: Comparison of the Mitogenic Response of Human, Murine, and Rabbit Lymphocytes — Nancy J. Poindexter and Patrick M. Schlievert — 65

Comparison of Infection Rates and Severity of Illness for Influenza A Subtypes H1N1 and H3N2 — Arthur L. Frank, Larry H. Taber, and Janet M. Wells — 73

Cross-Subtype Protection in Humans During Sequential, Overlapping, and/or Concurrent Epidemics Caused by H3N2 and H1N1 Influenza Viruses — Tadao Sonoguchi, Hiroshi Naito, Masaru Hara, Yasue Takeuchi, and Hideo Fukumi — 81

Development and Persistence of Class-Specific Antibodies in the Serum and Nasopharyngeal Washings of Rubella Vaccinees — Siobhan O'Shea, Jennifer M. Best, J. E. Banatvala, and Wilma M. Shepherd — 89

Evidence of Immunity Induced by Naturally Acquired Rotavirus and Norwalk Virus Infection on Two Remote Panamanian Islands — R. W. Ryder, N. Singh, W. C. Reeves, A. Z. Kapikian, H. B. Greenberg, and R. B. Sack — 99

Varicella-Zoster Virus Infection of Strain 2 Guinea Pigs — Martin G. Myers, Lawrence R. Stanberry, and Betty J. Edmond — 106

Gastrointestinal Carriage of Toxigenic Bacteria: Relation to Diarrhea and to Serum Immune Response	Alice H. Cushing and Joanne Smart	114
Identification by DNA Hybridization of Enterotoxigenic *Escherichia coli* in a Longitudinal Study of Villages in Thailand	Peter Echeverria, Jitvimol Seriwatana, David N. Taylor, Chalard Tirapat, Wanpen Chaicumpa, and Bernard Rowe	124
Campylobacter cinaedi (sp. nov.) and *Campylobacter fenneliae* (sp. nov.): Two New *Campylobacter* Species Associated with Enteric Disease in Homosexual Men	Patricia A. Totten, Cynthia L. Fennell, Fred C. Tenover, Jennifer M. Wezenberg, Peter L. Perine, Walter E. Stamm, and King K. Holmes	131
Capnocytophaga Species: Infections in Nonimmunocompromised and Immunocompromised Hosts	David M. Parenti and David R. Snydman	140
Detection of Gram-Negative Bacteremia by Limulus Amebocyte Lysate Assay: Evaluation in a Rat Model of Peritonitis	Gary C. du Moulin, Susan E. Lynch, John Hedley-Whyte, and Selwyn A. Broitman	148
Effects of Exopolysaccharide Production by Viridans Streptococci on Penicillin Therapy of Experimental Endocarditis	Lynn Pulliam, Lawrence Dall, Sharon Inokuchi, Walter Wilson, W. Keith Hadley, and John Mills	153
Efficacy of Vancomycin Plus Rifampin in Experimental Aortic-Valve Endocarditis Due to Methicillin-Resistant *Staphylococcus aureus*: In Vitro–in Vivo Correlations	Arnold S. Bayer and Kitty Lam	157
Bactericidal Effects of Photoradiation Therapy with Hematoporphyrin Derivative	Frank R. Venezio, Cathy DiVincenzo, Randall Sherman, Mark Reichman, Thomas C. Origitano, Kenneth Thompson, and O. H. Reichman	166
Cross-Reactivity of Antigens from the Cytoplasm and Cell Walls of Some Corynebacteria and Mycobacteria	C. Abou-Zeid, M. Harboe, B. Sundsten, and C. Cocito	170
Concise Laboratory and Clinical Communications		
Mycobacterium avium–Mycobacterium intracellulare from the Intestinal Tracts of Patients with the Acquired Immunodeficiency Syndrome: Concepts Regarding Acquisition and Pathogenesis	Beca Damsker and Edward J. Bottone	179
Ultrastructural Observations of *Pneumocystis carinii* Attachment to Rat Lung	Nancy G. Henshaw, Johnny L. Carson, and Albert M. Collier	181
Point-Source Outbreak of *Mycoplasma pneumoniae* Infection in a Family Unit	Riad Khatib and Daniel Schnarr	186
Response of Children of Patients with Primary Hepatocellular Carcinoma to Hepatitis B Virus Vaccine	Robert W. Ryder, Hilton C. Whittle, Andrew B. Ajdukiewicz, Stevenson Tulloch, and Bernard Yvonnet	187
Correspondence		
Prevalence of Hepatitis B–Associated Delta Agent Among Mentally Retarded Carriers of HBsAg	Ghanshyam Lohiya, Sugantha Govindarajan, John Hoefs, Boontar Valinluck, and William Maeda	192

Ionic, Hydrophobic, and Hemagglutinating Properties of *Shigella* Species	Shahjahan Kabir, Showkat Ali, and Qudsiya Akhtar	194
Asymptomatic Carriage of Cryptosporidium in the Stool of a Patient with Acquired Immunodeficiency Syndrome	Fred Zar, P. Jan Geiseler, and Valerie A. Brown	195
Invasive External Otitis Caused by *Aspergillus fumigatus* in an Immunocompromised Patient	Russell M. Petrak, John C. Pottage, Jr., and Stuart Levin	196
Erratum (1984;149:950–5)		197
Notices		198
Statement of Editorial Policy		199
Instructions to Authors		199

Volume 151 • *February 1985* • *Number 2*

CONTENTS

Original Articles

Outbreak of Endocarditis Caused by *Pseudomonas aeruginosa* Serotype O11 Among Pentazocine and Tripelennamine Abusers in Chicago	R. Shekar, Thomas W. Rice, Charles H. Zierdt, and Charles A. Kallick	203
Selective Survival in Pentazocine and Tripelennamine of *Pseudomonas aeruginosa* Serotype O11 from Drug Addicts	Kenneth B. Botsford, Robert A. Weinstein, Catherine R. Nathan, and Sherwin A. Kabins	209
Immune Globulin for Intravenous Use: Enhancement of in Vitro Opsonophagocytic Activity of Neonatal Serum	Laurence B. Givner, Morven S. Edwards, Donald C. Anderson, and Carol J. Baker	217
Human Antibody to the Group-Specific Polysaccharide of Group B *Streptococcus*	Bascom F. Anthony, Nelydia F. Concepcion, and Kristian F. Concepcion	221
Susceptibility of *Campylobacter* Isolates to the Bactericidal Activity of Human Serum	Martin J. Blaser, Paul F. Smith, and Peter F. Kohler	227
Seroepidemiological Studies of El Tor Cholera in Bangladesh: Association of Serum Antibody Levels with Protection	Roger I. Glass, Ann-Mari Svennerholm, M. R. Khan, Shamsul Huda, M. Imdadul Huq, and Jan Holmgren	236
Molecular Epidemiology of Transmissible Gentamicin Resistance among Coagulase-Negative Staphylococci in a Cardiac Surgery Unit	Gordon L. Archer, David R. Dietrick, and J. Linda Johnston	243
An Outbreak of Infections with *Acinetobacter calcoaceticus* in Burn Patients: Contamination of Patients' Mattresses	Robert J. Sherertz and Marsha L. Sullivan	252

Neuraminidase Production by Streptococci from Patients with Glomerulonephritis	Jesús A. Mosquera, Vishnu N. Katiyar, Jesús Coello, and Bernardo Rodríguez-Iturbe	259
Antigens of *Treponema pallidum* Recognized by IgG and IgM Antibodies During Syphilis in Humans	Sharon A. Baker-Zander, Edward W. Hook III, Paul Bonin, H. Hunter Handsfield, and Sheila A. Lukehart	264
Modification of Otitis Media in Chinchillas Rechallenged with Nontypable *Haemophilus influenzae* and Serological Response to Outer Membrane Antigens	Raymond B. Karasic, Cynthia E. Trumpp, Hanspeter E. Gnehm, Peter A. Rice, and Stephen I. Pelton	273
Prevention of Perinatal Transmission of Hepatitis B Virus: A Comparison Between the Efficacy of Passive and Passive-Active Immunization in Korea	Whan Kook Chung, Jae Young Yoo, Hee Sik Sun, Hun Young Lee, Ik Joon Lee, Sun Moo Kim, and Alfred M. Prince	280
Prevention of Perinatal Transmission of Hepatitis B Virus (HBV) to Children of e Antigen–Positive HBV Carrier Mothers by Hepatitis B Immune Globulin and HBV Vaccine	Koichi Kanai, Akira Takehiro, Hiroshi Noto, Mitsuhiro Nishida, Kazuaki Takahashi, Yoshihiro Kawashima, Yoshio Igarashi, Kan Matsushita, and Masaru Shimizu	287
Ciprofloxacin as Therapy for Experimental Osteomyelitis Caused by *Pseudomonas aeruginosa*	Carl W. Norden and Ellen Shinners	291
Amikacin-Resistant Gram-Negative Bacilli: Correlation of Occurrence with Amikacin Use	Jerome F. Levine, Melanie J. Maslow, Ronnie E. Leibowitz, Alan A. Pollock, Bruce A. Hanna, Sam Schaefler, Michael S. Simberkoff, and James J. Rahal, Jr.	295
Natural Killer Cell Activity in Infants and Children Excreting Cytomegalovirus	Christopher J. Harrison and Joseph L. Waner	301
Expression of Viral Antigens after Infection of Human Lymphocytes, Monocytes, and Macrophages with Influenza Virus	Norbert J. Roberts, Jr. and Paul K. Horan	308
In Situ Localization of T Lymphocytes in Disseminated Coccidioidomycosis	Robert L. Modlin, Gary P. Segal, Florence M. Hofman, Michael S. Walley, Royce H. Johnson, Clive R. Taylor, and Thomas H. Rea	314
Increased Blastogenic Responses to Worm Antigen and Loss of Adherent Supressor Cell Activity after Treatment for Human Infection with *Schistosoma mansoni*	Jerrold J. Ellner, David J. Tweardy, Gamal S. Osman, Carla Wilson, Aziz El Kholy, and Ross E. Rocklin	320
Rapid Diagnosis of Cytomegaloviral Pneumonia by Tissue Immunofluorescence with a Murine Monoclonal Antibody	Robert C. Hackman, David Myerson, Joel D. Meyers, Howard M. Shulman, George E. Sale, Lynn C. Goldstein, Mary Rastetter, Nancy Flournoy, and E. Donnall Thomas	325
Failed Rubella Immunization in Adults: Association with Immunologic and Virological Abnormalities	Aubrey J. Tingle, Janet K. Chantler, G. Donald Kettyls, R. P. Bryce Larke, and Michael Schulzer	330
Viral Persistence and Abnormalities of the Central Nervous System after Congenital Infection of Sheep with Border Disease Virus	Barbara J. Potts, Laurence J. Berry, Bennie I. Osburn, and Kenneth P. Johnson	337

Cytomegalovirus Infection in Sex Partners: Evidence for Sexual Transmission	H. Hunter Handsfield, Susan H. Chandler, Virginia A. Caine, Joel D. Meyers, Lawrence Corey, Edward Medeiros, and James K. McDougall	344
Experimental Model for Activation of Genital Herpes Simplex Virus	Helena Wrzos and Fred Rapp	349
Population Dynamics of Ingested *Clostridium difficile* in the Gastrointestinal Tract of the Syrian Hamster	Kenneth H. Wilson, John N. Sheagren, and Rolf Freter	355
Concise Laboratory and Clinical Communications		
Adverse Effects of High-Dose Intravenous Acyclovir in Ambulatory Patients with Acute Herpes Zoster	Bonnie Bean and Dorothee Aeppli	362
The Origin of the HM175 Strain of Hepatitis A Virus	I. D. Gust, N. I. Lehmann, S. Crowe, M. McCrorie, S. A. Locarnini, and C. R. Lucas	365
Serological Evidence of Subclinical Rocky Mountain Spotted Fever Infections in Texas	Jeffery P. Taylor, Wiley B. Tanner, Julia A. Rawlings, Janelda Buck, Laurence B. Elliott, Hal J. Dewlett, Brooks Taylor, and Thomas G. Betz	367
Rocky Mountain Spotted Fever in Children in Kansas: The Diagnostic Value of an IgM-Specific Immunofluorescence Assay	Patrick L. Hays	369
Persistence of *Neisseria meningitidis* in the Upper Respiratory Tract after Intravenous Antibiotic Therapy for Systemic Meningococcal Disease	Jon S. Abramson and John S. Spika	370
Correspondence		
High-Dose Oral Acyclovir for Children at Risk of Disseminated Herpesvirus Infections	V. M. Novelli, W. C. Marshall, J. Yeo, and G. D. McKendrick	372
Use of Amantadine in the United States, 1977–1982	Anne Bailowitz and Richard A. Kaslow	372
Delta Infection in a Hemodialyzed Patient	Karl Gmelin, Michael Roggendorf, Ursula Schlipköter, Lorenz Theilmann, Jürgen Bommer, Burkhard Kommerell, and Friedrich Deinhardt	374
Responses of Adult Volunteers to a *Pseudomonas aeruginosa* Exotoxoid-A Vaccine	Eva Lydick, Arlene A. Mclean, Allen F. Woodhour, and Lynn T. Callahan III	375
Molluscum Contagiosum, Another Sexually Transmitted Disease: Its Impact on the Clinical Virology Laboratory	Juanita Dennis, Lyndon S. Oshiro, and John W. Bunter	376
Persistence of Antibodies to *Rickettsia conorii* after an Acute Attack of Boutonneuse Fever	S. Mansueto, Giustina Vitale, M. Bentivegna, G. Tringali, and R. Di Leo	377
Laboratory Diagnosis of *Streptococcus pneumoniae* Pneumonia	Darwin L. Palmer	378
Reply	Carl A. Perlino	378

Erratum 379

1984;150:402–6

Notices 380

Volume 151 • *March 1985* • *Number 3*

CONTENTS

Annual Meeting Presentations

The Social Evolution of the Infectious Diseases Society of America — Theodore C. Eickhoff — 383

The Responsibility of the Infectious Disease Community for the Optimal Use of Antimicrobial Agents — Calvin M. Kunin — 388

Microbial Resistance to Newer Generation β-lactam Antibiotics: Clinical and Laboratory Implications — Christine C. Sanders and W. Eugene Sanders, Jr. — 399

Newer Directions in Vaccine Development and Utilization — Maurice R. Hilleman — 407

Oral Poliovirus Vaccine: History of Its Development and Use and Current Challenge to Eliminate Poliomyelitis from the World — Albert B. Sabin — 420

Original Articles

Adenoviruses and Pediatric Gastroenteritis — Carl D. Brandt, Hyun Wha Kim, William J. Rodriguez, Julita O. Arrobio, Barbara C. Jeffries, Emma P. Stallings, Carolyn Lewis, Audrey J. Miles, Mary K. Gardner, and Robert H. Parrott — 437

Identification of Respiratory Virus Antigens in Middle Ear Fluids of Children with Acute Otitis Media — Hannu Sarkkinen, Olli Ruuskanen, Olli Meurman, Heikki Puhakka, Erkki Virolainen, and Jussi Eskola — 444

Virus-Induced Leukopenia: Colorado Tick Fever as a Human Model — Richard D. Andersen, Maureen A. Entringer, and William A. Robinson — 449

The Relation of Viral Replication to Interstitial Pneumonitis in Murine Cytomegalovirus Lung Infection — John D. Shanley and Edward L. Pesanti — 454

Epstein-Barr Virus Infections in Homosexual Men with Chronic, Persistent Generalized Lymphadenopathy — R. Shihman Chang, Harvey Thompson, and Sandy Pomerantz — 459

IgG-Mediated Viral Clearance in Experimental Infection with Herpes Simplex Virus Type 1: Role for Neutralization and Fc-Dependent Functions but not C′ Cytolysis and C5 Chemotaxis — Robert R. McKendall — 464

A Newly Recognized Cause of Travelers' Diarrhea: Enteroadherent *Escherichia coli*	John J. Mathewson, Philip C. Johnson, Herbert L. DuPont, Donna R. Morgan, Scott A. Thornton, Lindsey V. Wood, and Charles D. Ericsson	471
Antimicrobial Agents and *Clostridium difficile* in Acute Enteric Disease: Epidemiological Data from Sweden, 1980–1982	B. Aronsson, R. Möllby, and C.-E. Nord	476
Demonstration of Specific IgA in Human Feces after Immunization with Live Ty21a *Salmonella typhi* Vaccine	V. Cancellieri and G. M. Fara	482
Experimental Infection of Hamsters with *Campylobacter jejuni*	Charles D. Humphrey, Daniel M. Montag, and Fred E. Pittman	485
Emergence of a Multiple β-lactam–Resistance Phenotype in Group B Streptococci of Bovine Origin	Stephen R. Berghash and Gary M. Dunny	494
Cross-Resistance to Nalidixic Acid, Trimethoprim, and Chloramphenicol Associated with Alterations in Outer Membrane Proteins of *Klebsiella*, *Enterobacter*, and *Serratia*	Laurent Gutmann, Russell Williamson, Nicole Moreau, Marie-Dominique Kitzis, Ekkehard Collatz, Jacques F. Acar, and Fred W. Goldstein	501
Mannose-Resistant Hemagglutination and P Receptor Recognition of Uropathogenic *Escherichia coli* Isolated from Adult Patients	Rita M. Gander, Virginia L. Thomas, and Marvin Forland	508
Induction of Human Interleukin-1 by Toxic-Shock–Syndrome Toxin-1	Jeffrey Parsonnet, Robert K. Hickman, Diane D. Eardley, and Gerald B. Pier	514
Humoral Response to Disseminated Infection by *Mycobacterium avium–Mycobacterium intracellulare* in Acquired Immunodeficiency Syndrome and Hairy Cell Leukemia	Stephen M. Winter, Edward M. Bernard, Johnathan W. M. Gold, and Donald Armstrong	523
Effects of Ampicillin and Corticosteroids on Brain Water Content, Cerebrospinal Fluid Pressure, and Cerebrospinal Fluid Lactate Levels in Experimental Pneumococcal Meningitis	Martin G. Täuber, Hassan Khayam-Bashi, and Merle A. Sande	528
The Relative Role of Bacterial Cell Wall and Capsule in the Induction of Inflammation in Pneumococcal Meningitis	Elaine Tuomanen, Alexander Tomasz, Bruno Hengstler, and Oto Zak	535

Concise Laboratory and Clinical Communications

Production of Interleukin-2 by Rat Lymph Node Cells Stimulated by *Mycoplasma pulmonis* Membranes	Ditza Levin, Harriet Gershon, and Yehudith Naot	541
Herpes Simplex Virus Replication in Interleukin-2–Stimulated Human T Cells	Scott M. Hammer and Jacqueline M. Gillis	544
Acute and Latent Infection by Thymidine Kinase Mutants of Herpes Simplex Virus Type 2	Richard B. Tenser, John C. Jones, and Stephen J. Ressel	548
Survey of Plasmids in *Salmonella typhi* from Chile and Thailand	Barbara E. Murray, Myron M. Levine, Ana Maria Cordano, Karin D'Ottone, Panida Jayanetra, Dennis Kopecko, Ratanasuda Pan-Urae, and Ingeborg Prenzel	551

Disproportionate Expansion of a Minor T Cell Subset in Patients with Lymphadenopathy Syndrome and Acquired Immunodeficiency Syndrome — Dorothy E. Lewis, Jennifer M. Puck, George F. Babcock, and Robert R. Rich — 555

Detection of Two Human T Cell Leukemia/Lymphotropic Viruses in Cultured Lymphocytes of a Hemophiliac with Acquired Immunodeficiency Syndrome — Erskine L. Palmer, Alyne K. Harrison, Rosemary B. Ramsey, Paul M. Feorino, Donald P. Francis, Bruce L. Evatt, V. S. Kalyanaraman, and Mary L. Martin — 559

Visceral Botryomycosis Caused by *Neisseria mucosa* in a Patient with Chronic Granulomatous Disease — Ronald G. Washburn, Charles S. Bryan, Arthur F. DiSalvo, Abe M. Macher, and John I. Gallin — 563

Correspondence

Phagocytic and Fungicidal Activity of Monocytes from Patients with Acquired Immunodeficiency Syndrome — Ronald G. Washburn, Carmelita U. Tuazon, and John E. Bennett — 565

Fatal Fungemia with Arthritic Involvement Caused by *Trichosporon beigelii* in a Bone Marrow Transplant Recipient — S. Gardella, B. Nomdedeu, J. A. Bombí, J. Muñoz, J. Puig de la Bellacasa, A. Pumarola, and C. Rozman — 566

Disseminated Cryptococcosis with Muscular Involvement — Victor E. Jiménez-Lucho, Ramon Del Busto, and Evelyn J. Fisher — 567

A Statewide Assessment of the Role of Norwalk Virus in Outbreaks of Food-Borne Gastroenteritis — J. N. Kuritsky, M. T. Osterholm, J. A. Korlath, K. E. White, and J. E. Kaplan — 568

Rotaviruses and Immunobiological Failures — S. C. Arya — 569

Action of Metronidazole on Facultative Anaerobes — Penelope R. Sisson and H. R. Ingham — 569

Fever: The Old and the New — Elisha Atkins — 570

Errata

(1984; **149**:986–97) — 571

(1984; **150**:956–7) — 572

Notices — 573

Volume 151 • *April 1985* • *Number 4*

CONTENTS

Perspective

Pulmonary Disease Associated with *Pseudomonas aeruginosa* in Cystic Fibrosis: Current Status of the Host-Bacterium Interaction — Gerald B. Pier — 575

Original Articles

Studies on the Ability of Alginate to Act as a Protective Immunogen Against Infection with *Pseudomonas aeruginosa* in Animals	D. E. Woods and L. E. Bryan	581
IgG Proteolytic Activity of *Pseudomonas aeruginosa* in Cystic Fibrosis	Robert B. Fick, Jr., Robert S. Baltimore, Susan U. Squier, and Herbert Y. Reynolds	589
Acute Hepatitis B Virus Infection: Relation of Age to the Clinical Expression of Disease and Subsequent Development of the Carrier State	Brian J. McMahon, Wallace L. M. Alward, Davis B. Hall, William L. Heyward, Thomas R. Bender, Donald P. Francis, and James E. Maynard	599
The Long-Term Serological Course of Asymptomatic Hepatitis B Virus Carriers and the Development of Primary Hepatocellular Carcinoma	Wallace L. M. Alward, Brian J. McMahon, David B. Hall, William L. Heyward, Donald P. Francis, and Thomas R. Bender	604
Hepatitis B Virus DNA in Dane Particles: Evidence for the Presence of Replicative Intermediates	Jacques Scotto, Michelle Hadchouel, Simon Wain-Hobson, Pierre Sonigo, Anne-Marie Courouce, Pierre Tiollais, and Christian Bréchot	610
Non-A, Non-B Hepatitis: Is There More Than a Single Blood-Borne Strain?	Betsy Brotman, Alfred M. Prince, and Tellervo Huima	618
Antigenic Characterization of Respiratory Syncytial Virus Strains with Monoclonal Antibodies	Larry J. Anderson, John C. Hierholzer, Cecilia Tsuo, R. Michael Hendry, Bruce F. Fernie, Yvonne Stone, and Kenneth McIntosh	626
Antigenic Analysis of a Putative New Strain of Respiratory Syncytial Virus	G. A. Prince, R. L. Horswood, D. W. Koenig, and R. M. Chanock	634
Persistent Rubella Virus Infection of Human Synovial Cells Cultured in Vitro	Anthony L. Cunningham and J. R. E. Frazer	638
Neutralizing Antibodies to Pertussis Toxin in Whooping Cough	Marta Granström, Gunnar Granström, Pekka Gillenius, and Per Askelöf	646
Neisserial Antigen H.8 is Immunogenic in Patients with Disseminated Gonococcal and Meningococcal Infections	John R. Black, William J. Black, and Janne G. Cannon	650
Induction of Increased Antibody Responses to Pneumococcal Type 19F Polysaccharide by Klebsiella Polysaccharide	Chi-Jen Lee and Zhen Wang	658
Safety and Immunogenicity of *Klebsiella pneumoniae* Kl Capsular Polysaccharide Vaccine in Humans	S. J. Cryz, Jr., E. Fürer, and R. Germanier	665
The Relation of the Rib Protein Antigen to the Opsonization Differences Between Strains of Type II Group B Streptococci	Nathaniel R. Payne and Patricia Ferrieri	672
Phagocytosis and Killing of *Brucella* by Human Polymorphonuclear Leukocytes	Edward J. Young, Mark Borchert, Frank L. Kretzer, and Daniel M. Musher	682
Immune Spleen Cell–Mediated Protection Against Fatal Hantaan Virus Infection in Infant Mice	Tatsufumi Nakamura, Richard Yanagihara, Clarence J. Gibbs, Jr., and D. Carlton Gajdusek	691

Antileishmanial Activity of Human Red Blood Cells Containing Formycin A	J. D. Berman and J. V. Gallalee	698
Liposomal Amphotericin B for the Treatment of Systemic Fungal Infections in Patients with Cancer: A Preliminary Study	Gabriel Lopez-Berestein, Victor Fainstein, Roy Hopfer, Kapil Mehta, Margaret P. Sullivan, Michael Keating, Michael G. Rosenblum, Reeta Mehta, Mario Luna, Evan M. Hersh, James Reuben, Rudolph L. Juliano, and Gerald P. Body	704
Stereoisomeric Configuration of Arabinitol in Serum, Urine, and Tissues in Invasive Candidiasis	Edward M. Bernard, Brian Wong, and Donald Armstrong	711
A Multistate Outbreak of Gastrointestinal Illness Caused by Enterotoxigenic *Escherichia coli* in Imported Semisoft Cheese	Kristine L. MacDonald, Millicent Eidson, Christine Strohmeyer, Martin E. Levy, Joy G. Wells, Nancy D. Puhr, Kaye Wachsmuth, Nancy T. Hargrett, and Mitchell L. Cohen	716
Differential Effects of Iron on the Growth of *Listeria monocytogenes*: Minimum Requirements and Mechanism of Acquisition	Richard E. Cowart and Billy G. Foster	721
Concise Laboratory and Clinical Communications		
Intranasal Interferon-α_2 Prophylaxis of Natural Respiratory Virus Infection	Robert M. Douglas, Janice K. Albrecht, Helen B. Miles, Brian W. Moore, Ron Read, David A. Worswick, and Alistair J. Woodward	731
Resistance of Seropositive Volunteers to Subcutaneous Challenge with Low-Passage Human Cytomegalovirus	Stanley A. Plotkin, Robert E. Weibel, Gershon Alpert, Stuart E. Starr, Harvey M. Friedman, Stephen R. Preblud, and James Hoxie	737
H-2 Complex–Linked Resistance in Murine Toxoplasmosis	Thomas C. Jones and Peter Erb	739
Correspondence		
Acquisition of Hepatitis B by a Mentally Retarded Community Student	Charles A. Williams	741
Reply	Robert P. Perrillo, Gregory A. Storch, Carol J. Bodicky, Carolyn R. Campbell, and Gary E. Sanders	741
Appearance in Patients' Sera of Antibodies Against Purified Antigen of *Campylobacter jejuni* and its Relation to the Bacterium-Excreting Period	Shin-Ichi Mizuno, Sunao Maki, Takeshi Honda, Toshio Mowatani, and Koji Arita	742
The Prevalence of *Campylobacter jejuni* in Random-Source Cats Used in Biomedical Research	J. G. Fox, J. A. Ackerman, and C. E. Newcomer	743
Resistance to Challenge with Influenza A/Hong Kong/123/77 (H1N1) Wild-type Virus Induced by Live Attenuated A/Hong Kong/123/77 (H1N1) Cold-Adapted Reassortant Virus	Robert F. Betts, R. Gordon Douglas, Jr., and Brian R. Murphy	744

Interferon Treatment of Poliomyelitis	Stanley Levin	745
Fomites and Herpes Simplex Virus	Trudy Larson and Yvonne J. Bryson	746
Reversal of T Cell Helper/Suppressor Ratios in Intravenous Drug Abusers with Nonopportunistic Infections	Dial Hewlett, Jr., Shlomo Maayan, Steven N. Miller, Angeles Rodriques, Elliott Perla, Theodore Lenox, Yvonne Lue, Frederick P. Duncanson, and Gary P. Wormser	748
Type-Specific Antibody Responses of Volunteers Immunized with 23-Valent Pneumococcal Polysaccharide Vaccine	Maurice A. Mufson, Dallas Hughey, and Eva Lydick	749
Enzyme-Linked Immunosorbent Assay (ELISA) for the Diagnosis of Visceral Leishmaniasis in Kenya	K. M. De Cock, A. N. Hodgen, J. Y. Channon, T. K. Arap Siongok, S. B. Lucas, and P. H. Rees	750
Editors' Choice		
The More Things Change . . .	Dale R. Spriggs	753
Tribute		
Anne Stone Yeager, 1939–1984	Anne M. Arvin	756
From the Infectious Diseases Society of America		
Announcement of the Smith Kline & French Young Investigator Award of the Infectious Diseases Society of America		757
Announcement of the Dalldorf Postdoctoral Fellowship in Medical Mycology		757
Announcement of the Hoechst-Roussel Award		758
Future Meetings		758

Volume 151 • *May 1985* • *Number 5*

CONTENTS

Perspectives		
Anti-Idiotypic Antibodies: Implications of Internal Image–Based Vaccines for Infectious Diseases	Gordon R. Dreesman and Ronald C. Kennedy	761
Shiga Toxin—An Expanding Role in the Pathogenesis of Infectious Diseases	J. Robert Cantey	766
Cytomegaloviral Infection and Disease	Janet S. Kinney, Ida M. Onorato, John A. Stewart, Robert F. Pass, Sergio Stagno, Sarah H. Cheeseman, James Chin, Mary L. Kumar, Anne S. Yaeger, Kenneth L. Herrmann, Eugene S. Hurwitz, and Lawrence B. Schonberger	772

Original Articles

The Association Between Idiopathic Hemolytic Uremic Syndrome and Infection by Verotoxin-Producing *Escherichia coli*	Mohamed A. Karmali, Martin Petric, Corazon Lim, Peter C. Fleming, Gerald S. Arbus, and Hermy Lior	775
Trimethoprim Resistance in Multiple Genera of Enterobacteriaceae at a U.S. Hospital: Spread of the Type II Dihydrofolate Reductase Gene by a Single Plasmid	Kenneth H. Mayer, Mary E. Fling, John D. Hopkins, and Thomas F. O'Brien	783
An Outbreak of Antibiotic-Resistant *Salmonella enteritidis* in Liberia, West Africa	Ted L. Hadfield, Mark H. Monson, and I. K. Wachsmuth	790
Human Enteric Coronaviruses: Antigenic Relatedness to to Human Coronavirus OC43 and Possible Etiologic Role in Viral Gastroenteritis	Giuseppe Gerna, Nilda Passarani, Massimo Battaglia, and Elio G. Rondanelli	796
N-Acetyl-D-Galactosamine-Inhibitable Adherence Lectin of *Entamoeba histolytica.* I. Partial Purification and Relation to Amoebic Virulence in Vitro	Jonathan I. Ravdin, Cheryl F. Murphy, Robert A. Salata, Richard L. Guerrant, and Erik L. Hewlett	804
N-Acetyl-D-Galactosamine-Inhibitable Adherence Lectin of *Entamoeba histolytica.* II. Mitogenic Activity for Human Lymphocytes	Robert A. Salata and Jonathan I. Ravdin	816
The Prevalence of Antibodies to *Rickettsia rickettsii* in an Area Endemic for Rocky Mountain Spotted Fever	Catherine M. Wilfert, J. Newton MacCormack, Karl Kleeman, Robert N. Philip, Ernest Austin, Vivian Dickinson, and Lou Turner	823
An Epidemic of Mild Pneumonia Due to an Unusual Strain of *Chlamydia psittaci*	P. Saikku, S. P. Wang, M. Kleemola, E. Brander, E. Rusanen, and J. T. Grayston	832
An Outbreak of Chancroid in Orange County, California: Descriptive Epidemiology and Disease-Control Measures	Cheryl A. Blackmore, Khanchit Limpakarnjanarat, José G. Rigau-Pérez, William L. Albritton, and James R. Greenwood	840
Specific Immunoglobulin-Class Antibody Responses in the Elderly Before and After 14-Valent Pneumococcal Vaccine	Frederick L. Ruben and Michael Uhrin	845
Tetanus Antitoxin Titers in Women of Childbearing Age from Nine Diverse Populations	Luis R. Varela, Francis L. Black, and Cesar A. Mendizabal-Morris	850
The Use of C-Reactive Protein from Cerebrospinal Fluid for Differentiating Meningitis from Other Central Nervous System Diseases	Jon S. Abramson, Kenneth D. Hampton, Syliva Babu, Benedict L. Wasilauskas, and Mario J. Marcon	854
The Induction of Meningeal Inflammation by Components of the Pneumococcal Cell Wall	Elaine Tuomanen, Hans Liu, Bruno Hengstler, Oto Zak, and Alexander Tomasz	859
Serum Factor-Dependent Resistance of *Haemophilus influenzae* Type b to Antibody to Lipopolysaccharide	Thomas J. Inzana and Porter Anderson	869
Development of Bactericidal Antibody During *Branhamella catarrhalis* Infection	Alan J. Chapman, Jr., Daniel M. Musher, Steinn Jonsson, Jill E. Clarridge, and Richard J. Wallace, Jr.	878

Development of Serum Antibody to Toxic Shock Toxin Among Individuals with Toxic Shock Syndrome in Wisconsin	Susan J. Stolz, Jeffrey P. Davis, James M. Vergeront, Barbara A. Crass, P. Joan Chesney, Philip J. Wand, and Merlin S. Bergdoll	883
In Vitro Effect of Phagocyte Cationic Peptides on *Coccidioides immitis*	Gary P. Segal, Robert I. Lehrer, and Michael E. Selsted	890
Antibody Response in Human Nocardiosis: Identification of Two Immunodominant Culture-Filtrate Antigens Derived from *Nocardia asteroides*	Alan M. Sugar, Gary K. Schoolnik, and David A. Stevens	895
The Effect of Ketoconazole on Amphotericin B in a Model of Disseminated Aspergillosis	Andreas Schaffner and Paul G. Frick	902
Genetic Control of Natural Resistance to *Trypanosoma rhodesiense:* Transfer of Resistance with Bone Marrow or Spleen Cells	Hellen C. Greenblatt, Terry A. Potter, and David L. Rosenstreich	911
Free Versus Liposome-Entrapped Ampicillin in Treatment of Infection Due to *Listeria monocytogenes* in Normal and Athymic (Nude) Mice	Irma A. J. M. Bakker-Woudenberg, A. F. Lokerse, F. H. Roerdink, D. Regts, and M. F. Michel	917
Hepatitis B Virus–Associated Coinfection and Superinfection with δ Agent: Indistinguishable Disease with Different Outcome	Francesco Caredda, Elio Rossi, Antonella d'Arminio Monforte, Luisa Zampini, Tiziana Re, Bruno Meroni, and Mauro Moroni	925
IgG Subclass Antibodies to Herpes Simplex Virus	R. Marie Coleman, André J. Nahmias, Susan C. Williams, Donald J. Phillips, Charlotte M. Black, and Charles B. Reimer	929
Viral-Bacterial Pneumonia in Calves: Effect of Bovine Herpesvirus-1 on Immunologic Functions	H. Bielefeldt Ohmann and L. A. Babiuk	937
Acquisition of Cytomegaloviral Infections in Families with Young Children: A Serological Study	Larry H. Taber, Arthur L. Frank, Martha D. Yow, and Ann Bagley	948

Concise Laboratory and Clinical Communications

Cytomegaloviral Infections in Infant-Toddler Centers: Centers for the Developmentally Delayed versus Regular Day Care	Linda A. Jones, Paula M. Duke-Duncan, and A. S. Yeager	953
Results of the First Year of National Surveillance of Campylobacter Infections in the United States	Lee W. Riley and Mark J. Finch	956
A Novel Strain of *Escherichia coli* Causing Diarrhea, Bacteremia, and Fever in a Human	Grace M. Thorne, Sara W. Rothman, and Sherwood L. Gorbach	960
Cryptosporidiosis in Northeastern Brazil: Association with Sporadic Diarrhea	Cynthia S. Weikel, Leah I. Johnston, M. Auxiliadora De Sousa, and Richard L. Guerrant	963
Circulating Interferon and Clinical Symptoms in Colorado Tick Fever	Joann L. Ater, James C. Overall, Jr., Tze-Jou Yeh, Richard T. O'Brien, and Althea Bailey	966

Correspondence

Potential Risks of Trimethoprim-Sulfamethoxazole Prophylaxis in Neutropenic Patients	B. Riou, C. Richard, A. Rimailho, and P. Auzepy	969

Use of Topical Acyclovir in Immunocompromised Patients: Is Healing of Lesions Accelerated?	Robin McKenzie	970
Reply	Richard J. Whitley	971
Local Infection of the Intravenous-Cannulae Wound Associated with Transparent Dressings	Marian Katich and Jeffrey Band	971
Aeromonas hydrophila—An Accepted Enterotoxigenic "Neoenteropathogen"?	Åsa Ljungh and Torkel Wadström	972
Bacterial Endocarditis in Rats with Experimental Enterococccal Pyelonephritis	Phyllis A. Guze, George M. Kalmanson, Kenji Ishida, Lawrence R. Freedman, and Lucien B. Guze	973
Necrotizing Enteritis Associated with Toxigenic Type A *Clostridium perfringens*	Loes J. P. Van Kessel, Henri A. Verbrugh, Michael F. Stringer, and Joost B. L. Hoekstra	974
Campylobacter jejuni Isolated from a Rectal Biopsy Specimen	R. Roué, M. Meyran, B. Vergeau, T. Debord, and A. Le Guellec	976
Subtypes of *Legionella pneumophila* Defined by Monoclonal Antibiodies	Richard L. Vogt	976
Editors' Choice		
Cofactors in Disease: Epstein-Barr Virus, Oncogenes, and Burkitt's Lymphoma	Dale R. Spriggs	978

Volume 151 • *June 1985* • *Number 6*

CONTENTS

Editorial

Vaccine Crisis: An Emerging Societal Problem	Georges Peter	981
Perspective		
Serological Testing for Epstein-Barr Virus—Developments in Interpretation	Ciro Valent Sumaya	984
Original Articles		
Age-Related Prevalence of Human Serum IgG and IgM Antibody to the Core Glycolipid of *Escherichia coli* strain J5, as Measured by ELISA	Barbara J. Law and Melvin I. Marks	988
Cross-Reactive Immunoprotective Antibodies to *Escherichia coli* O111 Rough Mutant J5	Reutai Sakulramrung and Gerald J. Domingue	995
Failure of Monoclonal Antibodies to Core Glycolipid to Bind Intact Smooth Strains of *Escherichia coli*	Francis Gigliotti and Jerry L. Shenep	1005
Role of Antibiotic Class in the Rate of Liberation of Endotoxin During Therapy for Experimental Gram-Negative Bacterial Sepsis	Jerry L. Shenep, Ronald P. Barton, and Kathryn A. Mogan	1012

Activation and Inhibition of Hageman Factor–Dependent Pathways and the Complement System in Uncomplicated Bacteremia or Bacterial Shock	E. S. Kalter, M. R. Daha, J. W. ten Cate, J. Verhoef, and B. N. Bouma	1019
Penicillin Therapy for Treatment of Experimental Endocarditis Caused by Viridans Streptococci in Animals	W. R. Wilson, O. Zak, and M. A. Sande	1028
Infection with *Chlamydia trachomatis* Immunotype J Associated with Trachoma in Children in an Area Previously Endemic for Trachoma	H. Robert Harrison, W. Thomas Boyce, San-pin Wang, Gregory N. Gibb, James E. Cox, and E. Russell Alexander	1034
The Interaction of *Chlamydia trachomatis* with Host Cells: Ultrastructural Studies of the Mechanism of Release of a Biovar II Strain from HeLa 229 Cells	William J. Todd and Harlan D. Caldwell	1037
The Effect of *Chlamydia trachomatis* on Luminol-Dependent Chemiluminescence of Human Polymorphonuclear Leukocytes: Requirements for Opsonization	Margaret R. Hammerschlag, Kamala Suntharalingham, and Senih Fikrig	1045
Characterization of Monoclonal Antibodies Protecting Mice Against *Rickettsia rickettsii*	Robert L. Anacker, Robert H. List, Raymond E. Mann, Stanley F. Hayes, and Leo A. Thomas	1052
Molecular Epidemiology of Plasmid-Mediated Ampicillin Resistance in *Haemophilus influenzae* Type b Isolates from Alaska	Paul M. Mendelman, Vassiliki P. Syriopoulou, Shawna L. Gandy, Joel I. Ward, and Arnold L. Smith	1061
Seroepidemiological Studies of Group B *Streptococcus* Type II	Barry M. Gray, David G. Pritchard, and Hugh C. Dillon, Jr.	1073
Hepatitis B Viral DNA in Infected Human Liver and in Hepatocellular Carcinoma	Roger H. Miller, Sheng-Chung Lee, Yun-Fan Liaw, and William S. Robinson	1081
Kinetics of IgM and IgG Responses to Japanese Encephalitis Virus in Human Serum and Cerebrospinal Fluid	Donald S. Burke, Ananda Nisalak, Michael A. Ussery, Thanom Laorakpongse, and Suchard Chantavibul	1093
Systemic Lymphoid Atrophy in Coxsackievirus B3–Infected Mice: Effects of Virus and Immunopotentiating Agents	Donatella Matteucci, Antonio Toniolo, Pier G. Conaldi, Fulvio Basolo, Zina Gori, and Mauro Bendinelli	1100
Immunoregulation During Acute Infection with Epstein-Barr Virus: Dynamics of Interferon and 2′,5′-Oligoadenylate Synthetase Activity	Frank E. Brewster, Kevin S. Byron, and John L. Sullivan	1109
Synergism Between Recombinant Human Interferon and Nucleoside Antiviral Agents Against Herpes Simplex Virus: Examination with an Automated Microtiter Plate Assay	Donald M. Moran, Earl R. Kern, and James C. Overall, Jr.	1116
Isolation of an Antibacterial Peptide from Human Lung Lavage Fluid	Richard T. Ellison, III, Dorothy Boose, and F. Marc LaForce	1123
Effects of Praziquantel on Different Developmental Stages of *Schistosoma mansoni* in Vitro and in Vivo	Shu-hua Xiao, Brian A. Catto, and Leslie T. Webster, Jr.	1130
Diarrhea Associated with Typhoid Fever	S. K. Roy, Peter Speelman, Thomas Butler, Sumir Nath, Hamidur Rahman, and B. J. Stoll	1138

Surveillance of Lyme Disease in the United States, 1982	George P. Schmid, Rose Horsley, Allen C. Steere, John P. Hanrahan, Jeffrey P. Davis, G. Stephen Bowen, Michael T. Osterholm, Jason S. Weisfeld, Allen W. Hightower, and Claire V. Broome	1144
Concise Laboratory and Clinical Communications		
Long-Term Serological Follow-Up of Patients for Epstein-Barr Virus After Recovery from Infectious Mononucleosis	Charles A. Horwitz, Werner Henle, Gertrude Henle, Helene Rudnick, and Elliot Latts	1150
Nosocomial Coxsackie B4 Virus Infections in Two Chronic-Care Pediatric Neurological Wards	Ian Johnson, G. W. Hammond, and M. R. Verma	1153
Tryptophan Auxotypy Associated with *Staphylococcus aureus* that Produce Toxic-Shock-Syndrome Toxin	May C. Chu, Marian E. Melish, and John F. James	1157
Control of Production of Toxic-Shock-Syndrome Toxin-1 (TSST-1) by Magnesium Ion	Joan T. Mills, Jeffrey Parsonnet, Robert K. Hickman, Mary Kendrick, Ying-Chuech Tsai, and Edward H. Kass	1158
Mechanism Underlying the Development of Meningitis or Epiglottitis in Children After *Haemophilus influenzae* Type b Bacteremia	Leonard J. La Scolea, Jr., Santiago V. Rosales, Robert C. Welliver, and Pearay L. Ogra	1162
Influence of Salmonella Bacteremia on the Survival of Mice Infected with *Schistosoma mansoni*	Carmelita U. Tuazon, Theodore Nash, Allen Cheever, Franklin Neva, and Lloyd Lininger	1166
Role of the Latex Agglutination Test for Cryptococcal Antigen in Diagnosing Disseminated Infections with *Trichosporon beigelii*	Edward J. McManus, Marek J. Bozdech, and Jeffrey M. Jones	1167
Correspondence		
Attitudes and Behavior of Health Care Personnel Regarding the Use and Efficacy of Influenza Vaccine	Constance T. Pachucki, Joseph R. Lentino, and George Gee Jackson	1170
Comparative in Vivo Activity Between Intravenous Immune Globulin Prepared by Reduction and Alkylation or by Low pH	Michael S. Collins and Joe H. Dorsey	1171
Antibody Response of Infants to *Haemophilus influenzae* Type b Capsular Polysaccharide Combined with *Bordetella pertussis*	Donna M. Ambrosino, Mary P. Glode, Christine L. Williams, and George R. Siber	1174
Editors' Choice		
Vector Analysis: Pathogen-Insect Interactions	Dale R. Spriggs	1175
Errata		1177
(1985;**151**:399–406) (1985;**151**:437–43) (1985;**151**:555–8)		
Notice		1179
Reviewers for Volume 151		1181
Index for Volume 151		1185